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August 17, 1981
 NRC/TMI-81-046

MEMORANDUM FOR: Harold R. Denton, Director
 Office of Nuclear Reactor Regulation
 Bernard J. Snyder, Program Director
 TMI Program Office

FROM: Lake H. Barrett, Deputy Program Director
 TMI Program Office

SUBJECT: NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Enclosed is the status report for the period of August 9 - 15, 1981.

Original signed by
 Lake H. Barrett/

Lake H. Barrett
 Deputy Program Director
 TMI Program Office

Enclosure: As stated

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OFFICE	TMI:PO	TMI:PO	TMI:PO	TMI:PO	TMI:PO	TMI:PO
NAME	GKalmán/lmp	RConte	MShabaky	AFasanb	RBellamy	LBarrett
DATE	8/17/81	8/17/81	8/17/81	8/17/81	8/17/81	8/17/81

NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Week of August 9 - 15, 1981

Plant Status

Core Cooling Mode: Heat transfer from the reactor coolant system (RCS) loops to Reactor Building ambient.

Available Core Cooling Modes: Decay heat removal systems. Long term cooling "B" (once through steam generator-B)

RCS Pressure Control Mode: Standby Pressure Control (SPC) System.

Backup Pressure Control Modes: Mini Decay Heat Removal (MDHR) System.
Decay Heat Removal (DHR) System.

Major Parameters (as of 0500, August 7, 1981) (approximate values)

Average Incore Thermocouples: 119°F

Maximum Incore Thermocouple: 142°F

RCS Loop Temperatures:

	A	B
Hot Leg	118°F	121°F
Cold Leg (1)	74°F	75°F
(2)	75°F	76°F

RCS Pressure: 97 psig

Reactor Building: Temperature: 77°F
Water level: Elevation 290.96 ft. (8.46 ft. from floor)
via penetration 401 manometer
Pressure: -0.3 psig
Concentration: 4.9×10^{-5} uCi/ml Kr-85
(Sample taken 8/12/81)

Effluent and Environmental (Radiological) Information

1. Liquid effluents from the TMI site released to the Susquehanna River after processing, were made within the regulatory limits and in accordance with NRC requirements and City of Lancaster Agreement dated February 27, 1980.

During the period August 7, 1981 through August 13, 1981, the effluents contained no detectable radioactivity at the discharge point and individual effluent sources which originated within Unit 2 contained no detectable radioactivity.

2. Environmental Protection Agency (EPA) Environmental Data. The EPA announced on July 6, 1981 that, due to a new shipping procedure for Kr-85 samples to the laboratory, the results for the Kr-85 environmental monitoring stations around TMI will not always be available on a weekly basis. The NRC will report these results as they become available.

-- No radiation above normally occurring background levels was detected in any of the samples collected from the EPA's air and gamma rate networks during the period from August 5, 1981 through August 13, 1981.

3. NRC Environmental Data. Results from NRC monitoring of the environment around the TMI site were as follows:

-- The following are the NRC air sample analytical results for the onsite continuous air sampler:

<u>Sample</u>	<u>Period</u>	<u>I-131</u> <u>(uCi/cc)</u>	<u>Cs-137</u> <u>(uCi/cc)</u>
HP-280	August 5, 1981 - August 12, 1981	<8.8 E-14	<8.8 E-14

4. Licensee Radioactive Material and Radwaste Shipments.

-- On Monday, August 10, 1981, a 40 ml Unit 2 reactor coolant sample was sent to Babcock and Wilcox (B&W), Lynchburg, Virginia.

-- On Monday, August 10, 1981, one 6' x 6' EPICOR-I dewatered resin liner (liner P-4) from Unit 1 was shipped to Chem-Nuclear Systems, Incorporated, Barnwell, South Carolina.

-- On Tuesday, August 11, 1981, one 6' x 6' EPICOR-I dewatered resin liner (liner P-2) from Unit 1 was shipped to Chem-Nuclear Systems Incorporated, Barnwell, South Carolina.

-- On Wednesday, August 12, 1981, one 6' x 6' EPICOR-I dewatered resin liner (liner P-6) from Unit 1 was shipped to Chem-Nuclear Systems Incorporated, Barnwell, South Carolina.

-- On Thursday, August 13, 1981, 60 drums containing Unit 1 and Unit 2 contaminated laundry were shipped to Tri-State Industrial Laundries, Utica, New York.

Major Activities

1. Submerged Demineralizer System. Processing of the third batch of Reactor Coolant Bleed Tank (RCBT) water was completed on August 9, 1981. Preliminary results indicated that the loading on the first zeolite

ion exchange vessel is approximately 780 Ci for Cs-137 and 400 Ci of Sr-90 and the loading on the second zeolite ion exchange vessel is approximately 0.4 Ci of Cs-137 and 6 Ci of Sr-90. This loading represents greater than 99% removal of these radioactive materials from the process stream.

An outage to incorporate minor system modifications is in progress. Staging and processing of reactor building sump water is expected to start the first part of September 1981.

2. Solid Waste Storage Module Status. EPICOR-I waste liner shipments to Barnwell, South Carolina are continuing. EPICOR-I was a demineralizer system used for the treatment of Unit 1 liquid radioactive waste. A total of seven EPICOR-I liners and forty-nine EPICOR-II prefilters currently remain on site. The storage Module "A", which went into service in January 1980 contains 45 EPICOR-II prefilters and 3 EPICOR-I spent resin liners; Module "B" contains 4 EPICOR-I liners, 4 EPICOR-II prefilters and a 200 ft.³ Unit 1 spent resin waste liner. The actual cell locations of these waste liners are shown in attachments 1 and 2.

Sample analysis on the waste storage module sump continues to indicate that the liners are not degrading. Hydrogen and combustible gas analysis around the storage module, shield blocks and sump area indicate non-detectable (<0.1%) levels.

Future Meetings

1. On Tuesday, September 1, 1981, the Advisory Panel for the Decontamination of Three Mile Island Unit 2, will meet from 7:00 p.m. to 10:00 p.m. at the Holiday Inn, 23 South Second Street in Harrisburg, to discuss current activities at TMI. This meeting will be open for public observation.
2. On Thursday, September 3, 1981, Lake Barrett will address the Middletown Rotary Club to give an update on the decontamination and cleanup efforts at TMI.

P-8 1			PF-44 4	PF-10 5	PF-49 6
PF-15 7	PF-12 8	PF-3 9	P-7 10	PF-45 11	PF-5 12
	PF-14 14	PF-13 15	PF-46 16	PF-47 17	PF-11 18
PF-17 19		PF-4 21	PF-2 22	PF-48 23	PF-18 24
P-11 25		PF-41 27	PF-19 28		PF-6 30
PF-22 31	PF-23 32	PF-21 33	PF-20 34		PF-27 36
PF-28 37		PF-24 39	PF-25 40	PF-26 41	
PF-33 43	PF-30 44	PF-29 45	PF-31 46	PF-32 47	PF-1 48
PF-37 49	PF-34 50		PF-35 52	PF-36 53	PF-42 54
PF-38 55	PF-39 56		PF-40 58	PF-43 59	

MODULE A

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	P-3	33	34	35	36
37	P-5	P-1	40	41	42
P-6	44	45	46	47	48
49	50	51	52	PF-8	PF-50
55	CNSI 20079?	57	PF-9	59	PF-7
	56		58		60

MODULE B